



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2016-06-28-01 Date: 29/7/2016
Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address : Shettyhalli Sub Division, BBMP, Bangalore.
Project Name : Emergency Grant in ward No.12 (Repairs to Culverts and drain in ward No.12 of Shettyhalli Sub -Division.
Agency : Technical Manger(west), KRIDL, Project Implementation unit, No.280,59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar. Bangalore-560010.
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 28-06-16
Sample ID No : 2016-06-28-01/01
Sample Type : Birla super 53 grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6
Date of testing : 28-06-2016 to 26-07-2016

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving	3.87%	-
2	Finess by Air permeability method	287.0	225m ² /kg, Min
3	Density	3.48	gm/cc
4	Specific Gravity	3.18	-
5	Standard Consistency	29.5%	Not specified
6	Initial Setting time	260 minutes	Not less than 30 minutes

Page1/2



[Signature]

AE-12
ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ ಅಭಿಯಂತರರು
ಶಿಬ್ಬಹಳ್ಳಿ ಸುವರ್ಣಾಂಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರೆವೆನ್ಯೂವೆಗಾರ, ಬೆಂಗಳೂರು

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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Lab ID

: CP-2016-06-28-01

Date: 29/7/2016

Sample ID No

: 2016-06-28-01/01

7	Final Setting time	355 minutes	Not more than 600 minutes
8	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm
9	Compressive Strength		
	3 Days	29.0N/mm ²	Not less than 27 N/mm ²
	7 Days	38.0N/mm ²	Not less than 37 N/mm ²
	28 Days	54.5N/mm ²	Not less than 53 N/mm ²

Note:

The results pertain to the samples received and tested.

All Information Furnished by the customer/Representative

Any correction in the report will make this report invalid

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Prepared by

Harshitha

FOR CIVIL Pro.



R. Karthik Rechan

R KARTHIK RECHAN

Authorized Signatory

Quality Manager

Page 2/2

****End of Report****



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2016-06-28-01 **Date:** 04-07-16

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Grant in ward No.12 (Repairs to Culverts and drain in ward No.12 of Shettyhalli Sub -Division.

Agency : Technical Manager(west), KRIDL, Project Implementation unit, No.280,59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar. Bangalore-560010.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-06-16

Sample ID No : 2016-06-28-01/03

Sample Type : Fine Aggregates

Reference to BIS codes : IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete
IS: 2386 :1963(Part - 1, 2, 3) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities.
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 29-06-16

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:1970			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	44	44	4.4	95.6	90-100	90-100	90-100	95-100
3	2.36 mm	71	115	11.5	88.5	60-95	75-100	85-100	95-100
4	1.18 mm	130	245	24.5	75.5	30-70	55-90	75-100	90-100
5	600 micron	115	360	36	64	15-34	35-59	60-79	80-100
6	300 micron	260	620	62	38	5-20	8-30	12-40	15-50
7	150 micron	340	960	96	4	0-10	0-10	0-10	0-15
8	Pan	40	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone III

Page 1/2



R. Kishan

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ಎಸ್.ಎಂ. ರಸ್ತೆ, ಕೆ.ಎಂ.ಎಸ್. ಬೆಂಗಳೂರು

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2016-07-28-01 Date: 4/8/2016
Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore
Address : Shettyhalli Sub Division, BBMP, Bangalore.
Project Name : Emergency Grant in ward No.12 (Repairs to Culverts and drain in ward No.12 of Shettyhalli Sub -Division.
Agency : Technical Manager(west), KRIDL, Project Implementation unit, No.280,59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.
Source of Sample : Sample supplied by Agency
Sample condition : Satisfactory
Date of Receipt : 28-07-16
Sample ID No : 2016-07-28-01/02(a)
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete
IS: 2386 :1963(Part - 1, 2, 3) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 2: Estimation of Deleterious Materials and Organic
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test : 29-07-16

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken: 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	80 mm	0	0	0	100.0	100
2	40 mm	194	194	3.88	96.1	95-100
3	20 mm	3155	3349	66.98	33.0	30-70
4	10 mm	1120	4469	89.38	10.6	10-35
5	4.75 mm	510	4979	99.58	0.4	0-5
6	Pan	21	5000	100	0.0	---

Page 1/2



R. Phik R

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2016-07-28-01

Date: 4/8/2016

Sample ID No : 2016-07-28-01/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	12.1	—
2	Elongation Index(%)	9.8	—
3	Specific Gravity	2.6	—
4	Bulk Density(Loose) (Kg/l)	1.45	—
5	Bulk Density(Compacted) (Kg/l)	1.47	—
6	Water Absorption(%)	0.21	—

Note:

The results pertain to the samples received and tested.

All Information Furnished by the customer/Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by

Harshitha

FOR CIVIL Pro.



R. Karthik Rechan

R KARTHIK RECHAN

Authorized Signatory

Quality Manager

Page 2/2

****End of Report****

AE-12

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